TECHNICAL SPECIFICATIONS FOR NEW INSULATING OIL - UNINHIBITED(U) Type II TRANSFORMER OIL

THIS SPECIFICATION COVERS FOR THE MANUFACTURE TESTING AT MANUFACTURERS WORKS AND SUPPLY OF TRANSFORMER OIL

1.0 **SCOPE** : This standard specifies the requirement for the unused mineral insulating oil as delivered in bulk, such as wagon and road tankers or drums suitable for immersion or filling of Transformers and other electrical equipment where normal oxidation resistance is required.

2.0 **COMPOSITION :** The oil shall be unused Mineral Oil clean and sufficiently free from moisture or other foreign matter likely to impair its properties. The source of the base stock, processing methodology, etc., shall be detailed in the offer.

3.0 **SAMPLING :** Sampling of the oil shall be done in accordance with IS : 6855-1973

4.0 **CHARACTERISTICS:** The characteristics of the oil where it is sampled(as above in 3) and tested in accordance with the methods referred to in Table I & II shall fully comply with the requirements specified in Table–I & II of IS:335-2018 and amendments thereof.

5.0 **PACKING :**

5.1 Oil shall be delivered in new non-returnable steel drums of 210 Ltrs. Capacity. The drum shall be effectively sealed to exclude moisture.

5.2 Consequent on the tendency for water absorption to occur and for the electrical characteristics in oils stored in drums, the limit for power factor, resistivity and electric strength for oil stored in drums shall apply only to oil delivered in India and to tests made within two weeks of delivery.

6.0 **TESTS :** The tests shall be carried out in accordance with the test methods referred to in 6 of IS:335 of 2018.

7.0 **MARKINGS :** Each barrel /drum shall be indelibly marked with the following :

a) Manufacturer’s name and trade mark.
b) Quantity in liters’.
c) Name of the Material.
d) The words Type II Transformer oil, Uninhibited(U) and,
e) Identification in code or otherwise to enable the date and lot of manufacturer to be traced back to the factory records.

The container shall also be marked with IS certification mark, letters **BESCOM P.O. NO. and Date.**

General Manager (El)